

FIG. 2

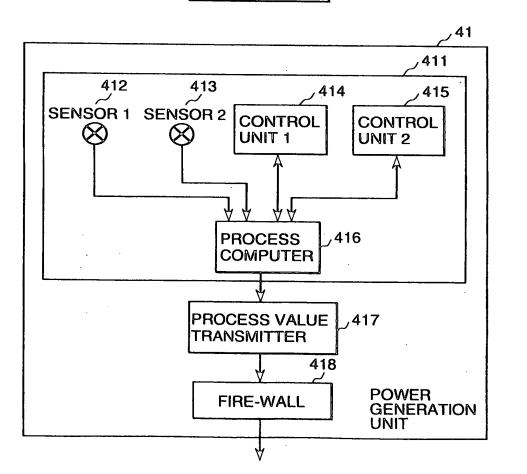


FIG. 3

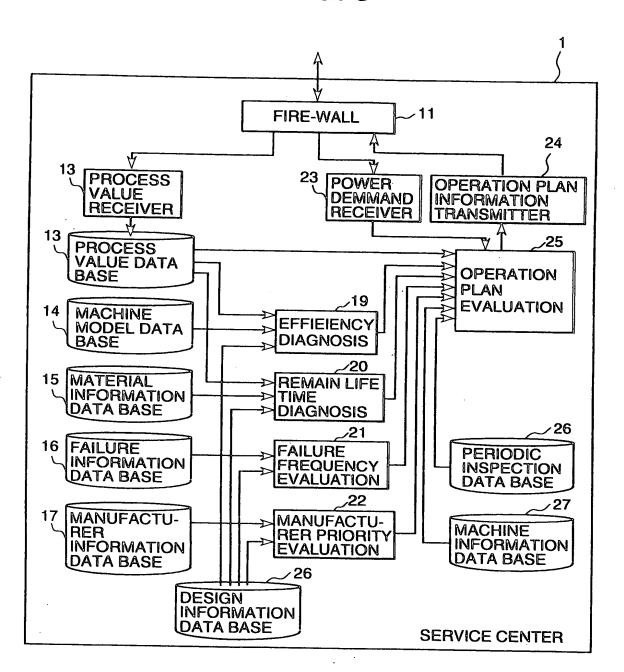


FIG. 4

PROCESS VALUE DATA BASE

)ULU	O VALU	EDAIA	3ASE							
POWER PLANT	UNIT	PRO No.	OCESS	PROCESS VALUE								
			TIME	12:00:20	12:00:19	12:00:18						
		PI	D001	100.0	99.0	99.5						
POWER	UNIT 1	PII	D002	120.0	119.0	118.0						
PLANT A	OI411 1	PI	0003	100.0	100.0	100.0						
	UNIT 2											

FIG. 5

DESIGN INFORMATION DATA BASE

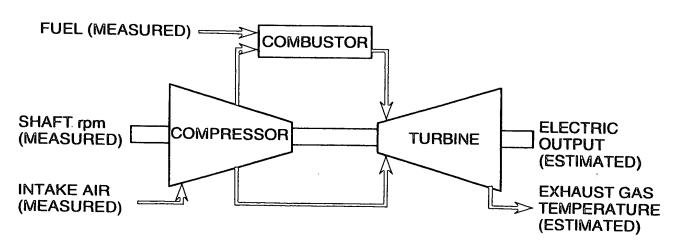
T==		DESIGN INFORMATION DAT	A BASE
POWER PLANT	UNIT	MACHINE (MANUFATURER/TYPE)	PARTS (MANUFACTURER/TYPE)
POWER PLANT A	UNIT 1	GAS TURBINE(A Co./GT001)	COMBUSTOR(B Co./CB003) TURBINE(A Co./TB001)
			COMPRESSOR(A Co./CP001)
		GENERATOR(B Co./GN005)	
		·	
L			

FIG. 6

PART	MANUFATURER/ TYPE	MACHINE MODEL	INPUT OUTPUT SPECIFICATION
COMPRESSOR	A Co./CP001	MODEL CP001	INPUT:PID010,PID015, · · OUTPUT:PID030,PID035, · ·
	B Co./CP001	MODEL CP003	
	:		
TURBINE	A Co./ TB001		

FIG. 7

MACHINE MODEL



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PERFORMANCE DETERIORATION JUDGEMENT MAKING USE OF MACHINE MODEL

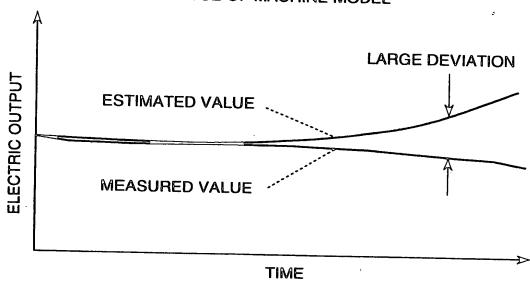
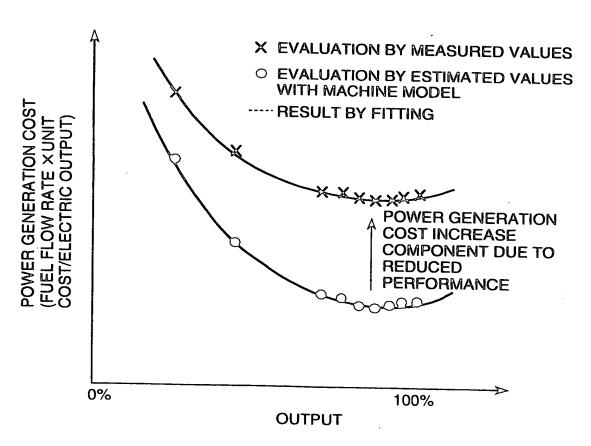


FIG. 9



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FIG. 10

PERIODIC INSPECTION INFORMATION DATA BASE

							19	99)					Γ	_	_	_		20	000)	_			
<u> </u>		1	2	3	4	5	6	7	8	9	10	11	112	12 1 2 3 4 5 6 7 8 9 1011								12			
AF	PLANT	L																	Ī		F				
	UNIT 1			$\lceil \zeta \rceil$			·												-						
	UNIT 2																		-						
BP	LANT																						1	7	\dashv
	UNIT 1							7															1	1	\dashv
·	UNIT 2								7	1				7	1	1	7	7	7	┪	1	1			
	i.																						1		
											[F	IN	ISI	-1E	D	-		P	LA	Ni	۸E	D	

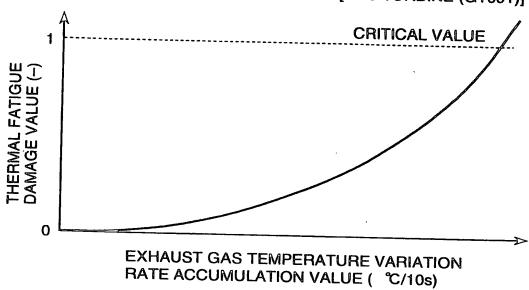
FIG. 11

MACHINE INFORMATION DATA BASE

MACHINE/ PARTS	MANUFACTURER/ TYPE	PURCHASED PRICE	DAYS FOR INSTALLATION
GAS TURBINE	A Co./GT001	20000M	10 DAY
	B Co./GT003	16000M	14 DAY
	C Co./GT001	24000M	8 DAY
	:	:	:
:	Ė	÷	i

FIG. 12

STRUCTURE OF MATERIAL INFORMATION DATA BASE THERMAL FATIGUE DAMAGE DATA [GAS TURBINE (GT001)]



CREEP DAMAGE DATA [GAS TURBINE (GT001)]

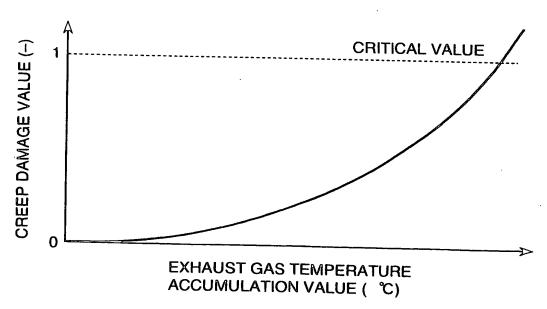


FIG. 13

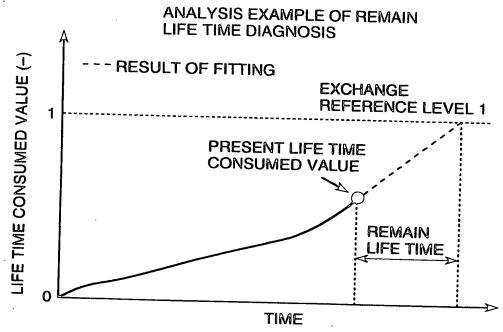


FIG. 15 FAILURE INFORMATION DATA BASE

DATE OF FAILURE OCCURRED	PLANT	UNIT	PARTS (MANUFACTURER/ TYPE)	DATE OF PREVIOUS REPAIR, EXCHANGE	CAUSE OF FAILURE
2000.9.10	PLANT A	UNIT 1	VALVE (A Co./VL0010)		PACKING DETERIO- RATION
1998.6.5	PLANT B	UNIT 2	PUMP (B Co./PU032)	1990.4.1	COUPLING BREAKAGE
	÷	:	:	;	ŧ

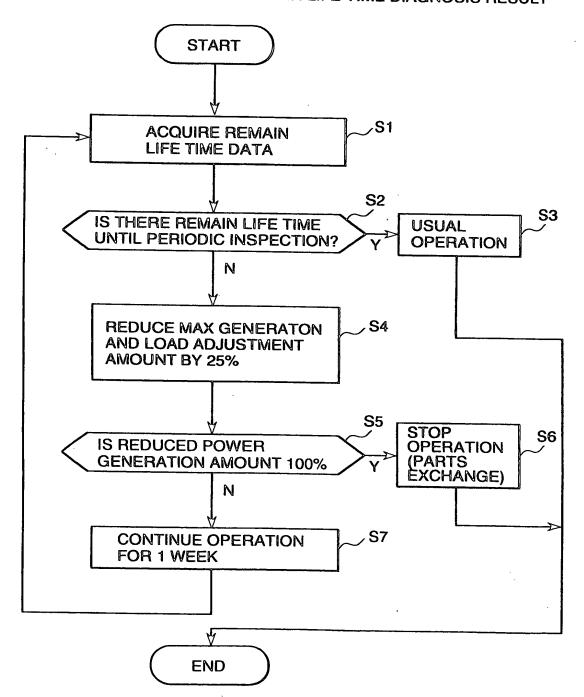
FIG. 16

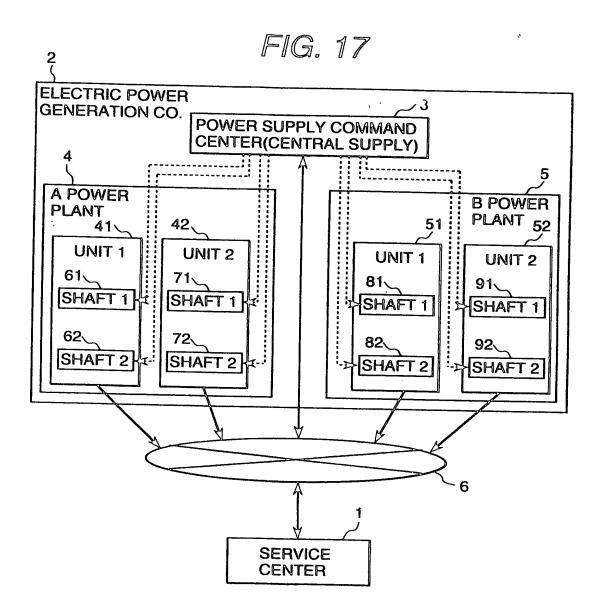
MANUFACTURER INFORMATION DATA BASE

MANUFACTURER	RELIABILITY	MAINTENANCE CAPACITY
A Co.	Α	Α
B Co.	Α	В
C Co.	В	В
	i.	:

FIG. 14

FLOW OF OPERATION AND MAINTENANCE PLANNING MAKING USE OF REMAIN LIFE TIME DIAGNOSIS RESULT





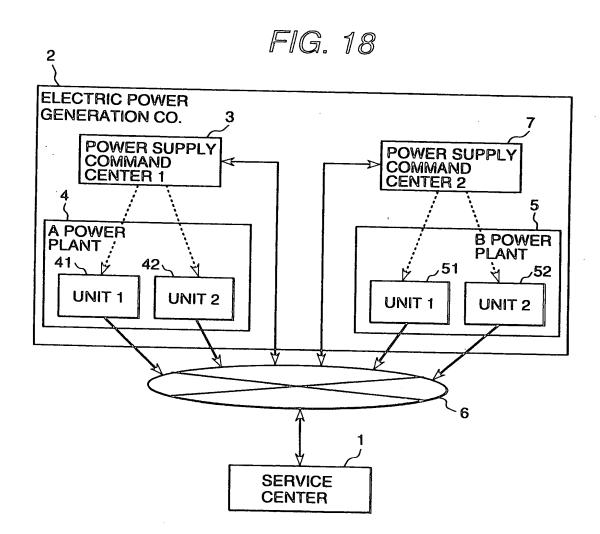


FIG. 19

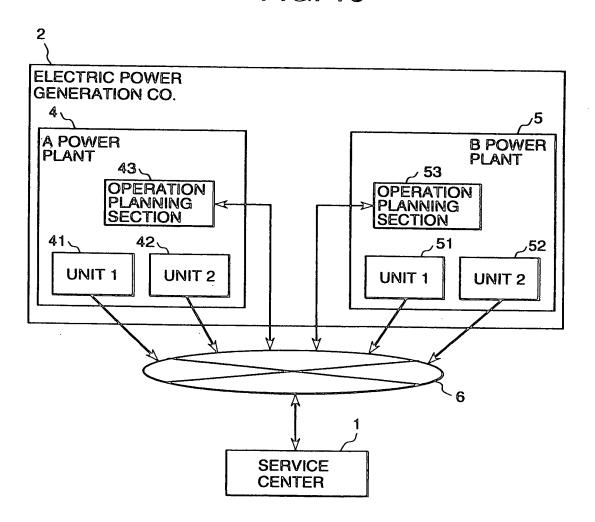
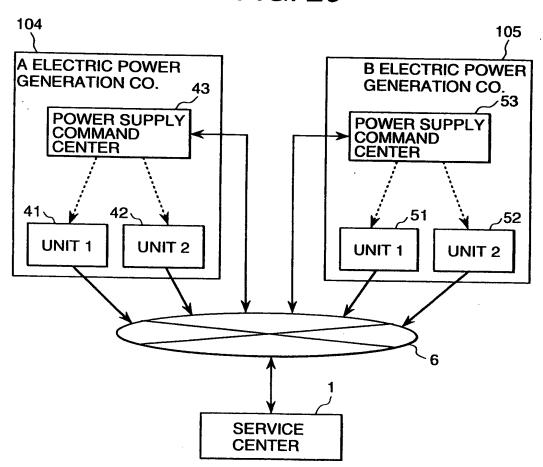


FIG. 20



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FIG. 21

PROCESS VALUE DATA BASE

POWER GENERATION	UNIT	PRO No.	OCESS	PROCESS VALUE							
Co.			TIME	12:00:20	12:00:19	12:00:18	•••				
		PII	D001	100.0	99.0	99.5					
	118117 4	PII	D002	120.0	119.0	118.0					
A POWER GENERATION	UNIT 1	PII	D003	100.0	100.0	100.0					
Co.			:								
	UNIT 2										

FIG. 22

DESIGN INFORMATION DATA BASE

		= = = = = = = = = = = = = = = = = = =	INDAOL
POWER GENERATION Co.	UNIT	MACHINE (MANUFATURER/TYPE)	PARTS (MANUFACTURER/TYPE)
	UNIT 1	GAS TURBINE(A Co./GT001)	COMBUSTOR(B Co./CB003)
			TURBINE(A Co./TB001)
A POWER			COMPRESSOR(A Co./CP001)
GENERATION Co.		GENERATOR(B Co./GN005)	

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FIG. 23

PERIODIC INSPECTION INFORMATION DATA BASE

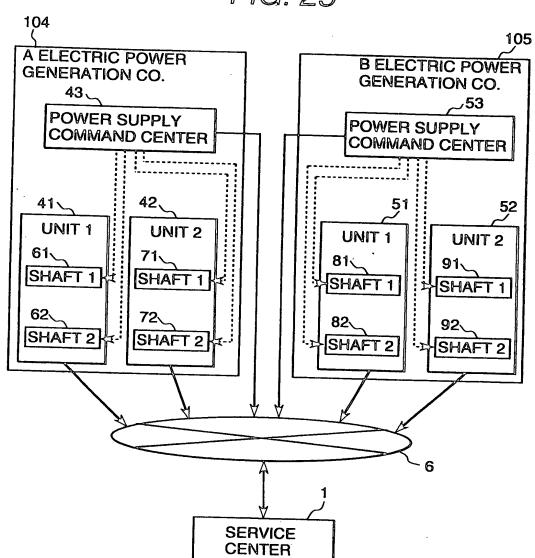
					•		19	99											20	00		:			
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
GEN	OWER JERATION																								
Co.	UNIT 1																								
	UNIT 2																								
GEN	OWER JERATION																								
Co.	UNIT 1																								
	UNIT 2]
	:																								
	FINISHED PLANNED																								

FIG. 24

FAILURE INFORMATION DATA BASE

DATE OF FAILURE OCCURRED	POWER GENERATION Co.	UNIT	PARTS (MANUFACTURER/ TYPE)	DATE OF PREVIOUS REPAIR, EXCHANGE	CAUSE OF FAILURE
2000.9.10	A POWER GENERATION Co.	UNIT 1	VALVE (A Co./VL0010)	1992.3.20	PACKING DATRERIO- RATION
1998.6.5	B POWER GENERATION Co.	UNIT 2	PUMP (B Co./PU032)	1990.4.1	COUPLING BREAKAGE
:	:	:	:	:	:

FIG. 25



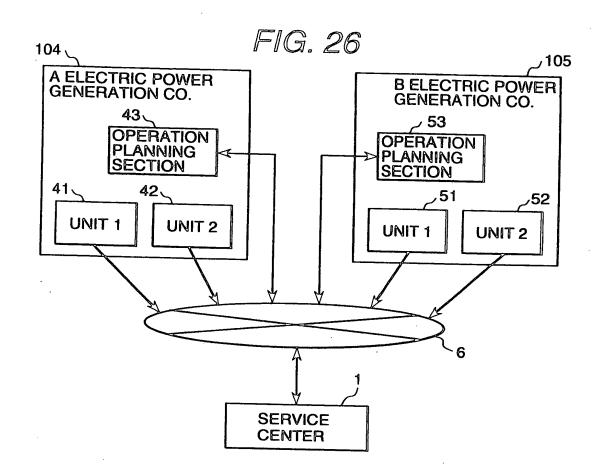


FIG. 27(a)

FIG. 27(b)

